



United States Environmental Protection Agency
Washington, D.C. 20460

Water Compliance Inspection Report

Section A: National Data System Coding (i.e., PCS)

Transaction Code	NPDES	yr/mo/day	Inspection Type	Inspector	Fac Type
1 N	WAU000399	100330	=	R	3
Remarks					
21					
66					
Inspection Work Days	Facility Self-Monitoring Evaluation Rating	BI	QA	Reserved	
67 30 69	70	71	72	73	74 75 80

Section B: Facility Data

Name and Location of Facility Inspected (For industrial users discharging to POTW, also include POTW name and NPDES permit number)	Entry Time/Date	Permit Effective Date
Maarhuis Dairy LLC 9489 Hovel Road Sumas, WA 98295	2:55 pm 3/30/2010	N/A
	Exit Time/Date	Permit Expiration Date
	4:45 pm 3/30/2010	N/A
Name(s) of On-Site Representative(s)/Title(s)/Phone and Fax Number(s)	Other Facility Data (e.g., SIC NAICS, and other descriptive information)	
Ken Maarhuis, owner/operator (b) (6) (office) (b) (6) (cell phone)	SIC 0241 unpermitted	
Name, Address of Responsible Official/Title/Phone and Fax Number	Contacted	
Ken Maarhuis, owner/operator 9489 Hovel Road Sumas, WA 98295 (b) (6) (office) / (b) (6) (cell phone)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

Section C: Areas Evaluated During Inspection (Check only those areas evaluated)

<input type="checkbox"/> Permit	<input type="checkbox"/> Self-Monitoring Program	<input type="checkbox"/> Pretreatment	<input type="checkbox"/> MS4
<input checked="" type="checkbox"/> Records/Reports	<input type="checkbox"/> Compliance Schedules	<input type="checkbox"/> Pollution Prevention	
<input checked="" type="checkbox"/> Facility Site Review	<input type="checkbox"/> Laboratory	<input type="checkbox"/> Storm Water	
<input checked="" type="checkbox"/> Effluent/Receiving Waters	<input checked="" type="checkbox"/> Operations & Maintenance	<input type="checkbox"/> Combined Sewer Overflow	
<input type="checkbox"/> Flow Measurement	<input type="checkbox"/> Sludge Handling/Disposal	<input type="checkbox"/> Sanitary Sewer Overflow	

Section D: Summary of Findings/Comments

(Attach additional sheets of narrative and checklists, including Single Event Violation codes, as necessary)

SEV Codes	SEV Description
• • • • •	• • • • •
• • • • •	• • • • •
• • • • •	• • • • •
• • • • •	• • • • •



Name(s) and Signature(s) of Inspector(s)	Agency/Office/Phone and Fax Numbers	Date
Dave Terpening	EPA/OCE (206) 553-6905	4/9/10
Kristin McNeill	EPA/OCE (206) 553-6291	4/8/10
Signature of Management Q A Reviewer	Agency/Office/Phone and Fax Numbers	Date
	RIO OCE 206 553-5069	09/14/10

PCS WAU000399

PCS
4-9-2010
JBW

**NPDES
Inspection Report**

Maarhuis Dairy, LLC

Sumas, Washington



March 30, 2010

**Prepared by:
Dave Terpening, Environmental Scientist
Environmental Protection Agency, Region 10
Office of Compliance and Enforcement
Inspection and Enforcement Management Unit**

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(Unless otherwise noted, all details in this inspection report were obtained from conversations with Ken Maarhuis or from observations during the inspection.

This inspection report includes an aerial photograph (attachment A) and a photograph documentation attachment (attachment B). Note that the aerial photograph identifies the photograph direction and location for the photographs included in the photograph documentation attachment.)

I. Facility Information

Facility Name:	Maarhuis Dairy, LLC
Facility Type:	Dairy (SIC 0241)
Facility Address:	9489 Hovel Road Sumas, Washington 98295 Whatcom County
Mailing Address:	9489 Hovel Road Sumas, Washington 98295 Whatcom County
Facility Phone #'s:	(b) (6) (cell) (b) (6)
Facility Contact:	Ken Maarhuis
Facility GPS Position:	N 48° 59' 05" W 122° 15' 30"

II. Inspection Information

Inspection Date:	March 30, 2010
Arrival Time:	14:55 PM
Departure Time:	16:45 PM
Weather:	Partly cloudy and light rain
Purpose:	Determination of compliance with the Clean Water Act

III. Permit Information

This facility is currently not covered by the Washington Concentrated Animal Feeding Operation (CAFO) National Pollutant Discharge Elimination System General (NPDES) Permit.

IV. Background and Activity

According to Ken Maarhuis, the dairy has been in operation since 1984. This dairy facility is considered a large concentrated animal feeding operation and consists of the barn complex where animals are confined, fed, and maintained. It also includes a milk parlor, a silage storage area, a settling pond, solids separator, a drying composter, waste storage lagoons, and adjacent pastures. The total acreage of this dairy operation is around 595 acres. The dairy has about 350 spreadable acres currently and leases another 250 acres.

The animals kept at this facility include adult milking and heifers. The waste generated at this facility is mainly manure and urine deposited in the barn areas. This facility is designed such that the wastes generated are collected, separated, composted, stored and then ultimately land applied on nearby pastures.

The inspection of this dairy is part of EPA Region 10's concentrated animal feeding operation initiative.

See attachments A and B for details on the facility components.

V. Individuals Present

The inspectors present for first day of this inspection included Dave Terpening (EPA), Kristin McNeill (EPA), and Eric Bair (WDA). Mr. Maarhuis was present during the inspection.

VI. Inspection Entry

This was an unannounced NPDES Compliance Evaluation Inspection (CEI). I presented my credentials to Mr. Maarhuis and explained the purpose of the visit upon arriving at the facility on March 30, 2010 at 14:55 PM. Mr. Maarhuis did not deny us access to the facility. We were allowed to inspect all areas that we wished to inspect.

VII. Inspection Chronology

Upon arriving at the facility we began the inspection with an opening conference where we discussed the purpose and expectations of the inspection. I requested to see the facility Nutrient Management Plan (NMP) and review other documents in the office. We then walked the dairy and inspected the confinement barns, waste handling system, solid separator, waste storage lagoon, land application areas. We concluded the inspection with a closing conference.

VIII. Owner and Operator Information

Mr. Maarhuis owns and operates the dairy.

IX. Number of Animals

Mr. Maarhuis indicated that his facility currently has about 1066 milking cows, 92 dry cows and about 45 heifers on site.

X. Presence of Vegetation in the Confinement Areas

The confinement area at this facility consists of barns with concrete floors. I did not see any vegetation in any of the confinement areas.

XI. Length of Animal Confinement

Mr. Maarhuis stated that the cows are confined to the barns year round.

XII. Waste Management Process

Waste generated at this facility is mainly from the barns where the animals are confined. According to Mr. Maarhuis, the animal waste is scraped and flushed from the barn alleys into a under storage tank. The waste is then pumped to an above ground tank. A solid separator is used to remove the solids. The facility has a drying machine used compost the solids. The liquid portion of the waste from the solids separator is routed to a waste storage lagoon where it is stored until it can be land applied. The solid portion of the waste is stored in a dry stack area until it can be land applied or provide bedding material for the cows.

See attachments A and B for details regarding the waste management process at this facility.

XIII. Observed Discharge

I did not see any wastewater discharged at the time of this inspection.

XIV. Receiving Water

The nearest surface water to this facility is Sumas River and about ¼ mile away.

XV. Sample Collection and Analyses

I did not collect any samples at the time of this inspection.

XVI. Areas of Concern

We inspected the facility including the confinement areas and the waste handling systems. I did not see or identify any concerns at the time of the inspection.

XVII. Closing Conference

The closing conference was held on March 30, 2010. The individuals present were the inspection team members (Dave Terpening, Kristin McNeill, and Eric Blair) and Ken Maarhuis. During the closing conference I complimented Mr. Maarhuis on the condition of his dairy and for his time and cooperation during the inspection.

Report Completion Date:

Sept 14, 2010

Lead Inspector Signature:



ATTACHMENT A

Aerial Photographs

KEN MANSURE DAIRY

ABOVE GROUND TANK

Hovei Rd

MAIN
DAIRY
COMPLEX

WASTE LAGOONS

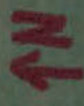
↑ N

© 2007 Google

Photo #1

© 2010 Google
© 2010 TerraNav
Image © 2010 DigitalGlobe





Abbas Ghouse & Partners

Abbas Ghouse & Partners

Office Area

Highway

Photo #2

ATTACHMENT B

Photograph Documentation

NPDES Compliance Inspection at Maarhuis Dairy in Sumas, Washington on March 30, 2010. All Photographs were taken by Dave Terpening.



Photo 1. Shows the self cleaning alleys between barns.



Photo 2. Pump lift station from underground collection tank.

NPDES Compliance Inspection at Maarhuis Dairy in Sumas, Washington on March 30, 2010. All Photographs were taken by Dave Terpening.



Photo 3. Large above ground waste storage tank.



Photo 4. One of several waste water storage lagoons on the facility.

NPDES Compliance Inspection at Maarhuis Dairy in Sumas, Washington on March 30, 2010. All Photographs were taken by Dave Terpening.

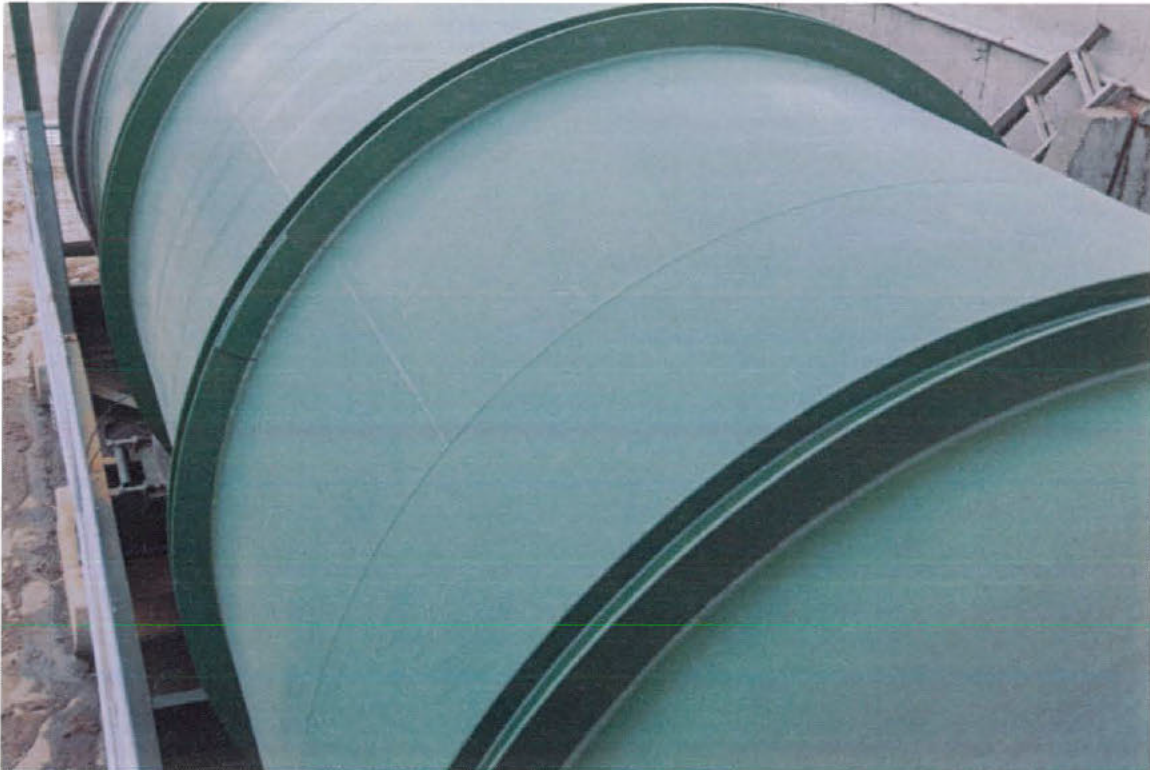


Photo 5. Maarhuis Dairy installed this solid drying system to help reduce the waste system solids.



Photo 6. Dry solids coming out of the dryers.

NPDES Compliance Inspection at Maarhuis Dairy in Sumas, Washington on March 30, 2010. All Photographs were taken by Dave Terpening.



Photo 7. Dried solids stored in covered building. Facility uses it as a composting material and bedding for the cows.